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PATENT Attorney Docket No. FJN-063

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

MAY 1 6 2001

APPLICANT(S):

Nakagawa et al.

TECH CENTER 1600/2900

SERIAL NO.:

09/051,670

GROUP NO.:

1647

FILING DATE:

April 16, 1998

EXAMINER:

Romeo, D.

TITLE:

Novel DNA and Process for Preparing Protein Using DNA

Assistant Commissioner for Patents

Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the provisions of 37 C.F.R. 1.97 and 1.98, Applicants hereby make of record the patents and publications listed on the accompanying Form PTO-1449, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified patent application. Copies of the patents and publications are enclosed.

05/15/E001 MICHAMMI 00000031 09051670

01 FD:123

180.00 OP

REMARKS

In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed (CHECK ONE):

	(1)	within three (3) months of the filing date of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), or within three (3) months of the date of entry of the national stage as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing of the first Office action on the merits, or before the mailing of a first Office action after the filing of a request for continued examination under 37 C.F.R. 1.114; or
\boxtimes	(2)	after the period defined in (1) but before the mailing date of a final action or a notice of allowance under 37 C.F.R. 1.311, and
		the requisite Statement is below, OR
	\boxtimes	the requisite fee under 37 C.F.R. 1.17(p), namely \$180.00, is included herein, or
	(3)	after the mailing date of a final action or notice of allowance but before the payment

Information Disclosure Statement Serial No. 09/051,670 Page 2 of 2

	the requisite Statement is below, AND
П	the requisite petition fee under 37 C.F.R. 1.17(p), namely \$180.00 is included herein

It is respectfully requested that each of the patents and publications listed on the attached Form PTO-1449, and other information contained herein, be made of record in this application.

STATEMENT

As required under 37 C.F.R. 1.97(e), Applicant(s), through the undersigned, hereby state either that [check the appropriate space only if either (2) or (3) is checked on the previous page and the Statement is required]:

- 1. Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application **not more than three months** prior to the filing of the Information Disclosure Statement; or
- No item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of the Information Disclosure Statement.

Date: May 8, 2001 Reg. No. 43,526

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Respectfully submitted,

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FORM PTO - 1449

INFORMATION DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.: FJN-063

APPLICANT(S): Nakagawa et al.

SERIAL NO.: 09/051,670

FILING DATE: April 16, 1998

GROUP: 1647

U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A3	5,118,667	6/2/92	1	514	12	
	A4	5,393,739	2/28/95		514	12	
	A5	5,578,569	11/26/96		514	12	
	A6	5,599,708	2/4/97		435	240.27	
	A7	5,658,756	8/19/97		435	69.1	
	A8	5,843,678	12/1/98	-	435	7.1	
	A9	5,985,832	11/16/99		514	12	
	A10	6,017,729	1/25/00		435	69.1	

FOREIGN PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG (Y/N)
	B4	0 514 130 A2		EP	A61K 37	02	05/12/92		Y
	B5	0 727 211 A1	08/21/96	EP	A61K 31	50	2/7/96		Y
	В6	96/28546	9/19/96	wo	C12N 15	00	3/15/95		Y
	В7	97/00317	1/3/97	wo	C12N 15	11	6/4/96		Y
	B8	97/00318	1/3/97	wo	C12N 15	11	6/7/95		Y



		OTHER ART, JOURNAL ARTICLES, ETC	C.					
EXAM. INIT.	ОТН	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)						
	С9	Anderson et al., "A homologue of the TNF receptor and its ligand enhature function", Nature, Vol. 390, November 13, 1997, pp. 175-179.	ance T-cell growth and dendritic-cell					
	C10	Chambers et al., "Generation of osteoclast-inductive and osteoclastoge transgenic mouse," Proceed. of the National Acad. of Sciences of USA						
	C11	Chenu et al., "Transforming growth factor β inhibits formation of oste marrow cells," Proceed. of the National Acad. of Sciences of USA, vo	-					
	C12	Fawthrop, F.W. et al., "The Effect of Transforming Growth Factor β of Normal Human Osteoblast-like Cells and a Human Osteosarcoma C Res. 7(12):1363-1371 (1992)	-					
	C13	Fenton, A. J. et al., "Long-Term Culture of Disaggregated Rat Osteocland Reduction of Osteoclast-Like Cell Number by Calcitonin and PTF 7 (1993)	-					
	C14	George et al., Macromolecular Sequencing and Synthesis, New York,	1998, pg. 127-149.					
	C15	Goodwin et al., "Molecular cloning and expression of the type 1 and type factor," Database EMROD, EMBL Databases, Accession Number: M5	•					
	C16	Gowen et al., "Preferential Inhibition of Cytokine-Stimulated Bone Re Gamma," Journal of Bone and Mineral Research, vol. 1, number 5, 19	-					
	C17	Hattersley et al., "Human Macrophage Colony-Stimulating Factor Inhi Disaggregated From Rat Bone," Journal of Cellular Physiology, vol. 1 199-203.	- · · · · · · · · · · · · · · · · · · ·					
	C18	International Search Report for PCT/JP98/01728						
	C19 Kaji et al., "Insulin-like growth factor-I mediates osteoclast-like cell formation stimulated by para hormone", Journal of Cellular Physiology, Vol. 172, No. 1, July 10, 1997, pp. 55-62.							
	C20	C20 Kasono et al., "Inhibitory effect of interleukin-4 on osteoclast-like cell formation in mouse bone marrow culture," Bone and Mineral, vol. 21, 1993, pgs. 179-188. C21 Rieger et al., Glossary of Genetics and Cytogenetics, Springer-Verlag, Berlin Heidlberg New York, 1977 pg. 17.						
	C21							
	C22	Simonet et al., "Osteoprotegerin: a novel secreted protein involved in the regulation of bone density," CEI vol. 89, April 18, 1997, pgs. 309-319.						
	C23	Takada et al., "A simple method to assess osteoclast-mediated bone resorption using unfractionated bone cells," Bone and Mineral, vol. 17, 1992, pgs. 347-359.						
	C24 Watanabe et al., "Interleukin-4 as a Potent Inhibitor of Bone Resorption," Biochem. and Biophys. Research Comm., vol. 172, number 3, 1990, November 1990, pgs. 1035-1041.							
	C25 Wong et al., "TRANCE is a novel ligand of the tumor necrosis factor receptor family that activates c-Junterminal kinase in T cell", J.Biol. Chem., Vol. 272, No. 40, October 28, 1997, pp. 24727-25408.							
EXAMIN	ER	DATE CONSIDERED						